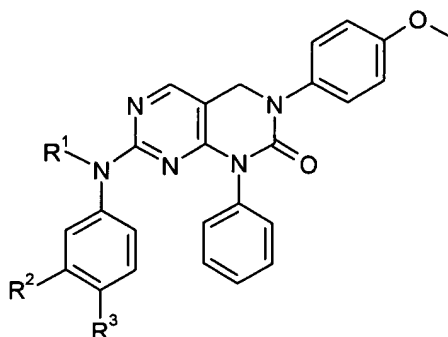


IN THE CLAIMS

1. (Original) A compound of formula:



I,

wherein

R¹ is selected from the group

- H,
- COR⁴, and
- COOCHR⁵OCOR⁴;

R² and R³ are independently selected from

- H, and
- OR⁵;

R⁴ is selected from the group

- C₁₋₆ alkyl,
- lower alkyl substituted by up to 4 groups independently selected from
- NR⁵R⁶,
- SR⁵,
- OR⁵,

-aryl,
-aryl substituted by up to 2 groups independently selected from
-OR⁵ and C₁₋₄ lower alkyl, and
-heteroaryl, and
-heterocycle;

R⁵ and R⁶ are independently selected from
-H, and
- C₁₋₅ lower alkyl,

or, alternatively, -NR⁵R⁶ can form a ring having 3 to 7 atoms, said ring optionally including one or more additional N or O atoms.

2. (Original) The compound of claim 1 wherein R¹ is -COR⁴.

3. (Original) The compound of claim 2 wherein R² is H.

4. (Original) The compound of claim 3 wherein R³ is H.

5. (Currently Amended) The compound of claim 4 which is selected from the group:

N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylacetamide (~~Ex. 2~~);

N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylpropanamide (~~Ex. 3~~);

2-Amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylacetamide acetic acid salt (~~Ex. 6b~~);

2-Amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylacetamide hydrochloric acid salt (~~Ex. 6e~~);

(2*S*)-2-Amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methylthio-*N*-phenylbutanamide (~~Ex. 7b~~);

(2*S*)-2-amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methylthio-*N*-phenylbutanamide acetic acid salt (~~Ex. 7e~~);

(2*S*)-2-Amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methylthio-*N*-phenylbutanamide hydrochloric acid salt (~~Ex. 7d~~);

(2*S*)-2-Amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-3-phenyl-*N*-phenylpropanamide (~~Ex. 8b~~);

(2*S*)-2-Amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-3-phenyl-*N*-phenylpropanamide hydrochloric acid salt (~~Ex. 8e~~);

(2*S*)-2-Amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methyl-*N*-phenylpentanamide acetic acid salt (~~Ex. 9b~~);

(2*S*)-2-Amino-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methyl-*N*-phenylpentanamide hydrochloric acid salt (~~Ex. 9e~~);

(2*S*)-2-Amino-3-(4-hydroxyphenyl)-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylpropanamide hydrochloric acid salt (~~Ex. 10b~~);

(2S)-2,6-Diamino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylhexanamide di-hydrochloric acid salt (~~Ex. 11b~~);

(2S)-2-Amino-3-indol-3-yl-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylpropanamide hydrochloric acid salt (~~Ex. 12b~~);

(2S)-2-Amino-3-hydroxy-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylpropanamide (~~Ex. 13b~~);

(2R)-2-Amino-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-4-methylthio-N-phenylbutanamide hydrochloric acid salt ~~salt~~ (~~Ex. 14b~~);

N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylpentanamide (~~Ex. 16~~); and

N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-N-phenylbutanamide (~~Ex. 17~~).

6. (Currently Amended) The compound of claim 2 which is selected from the group:

N-(4-Hydroxyphenyl)-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]acetamide (~~Ex. 19e~~); and

N-(4-methoxyphenyl)-N-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]acetamide (~~Ex. 21~~).

7. (Original) The compound of claim 1 wherein R¹ is -COOCHR⁵OCOR⁴.

8. (Original) The compound of claim 7 wherein R² is H.

9. (Original) The compound of claim 8 wherein R³ is H.

10. (Currently Amended) The compound of claim 9 which is selected from the group:

{*N*-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylcarbamoyloxy}methyl acetate (~~Ex. 4b~~);

{*N*-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylcarbamoyloxy}methyl 2-(dimethylamino)acetate (~~Ex. 5a~~);

{*N*-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylcarbamoyloxy}methyl 2-(dimethylamino)acetate hydrochloric acid salt (~~Ex. 5b~~);
and

{*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-phenylcarbamoyloxy}methyl piperidine-4-carboxylate trifluoroacetic acid salt (~~Ex. 15~~).

11. (Original) The compound of claim 1 wherein R¹ is H.

12. (Original) The compound of claim 11 wherein R² is H.

13. (Currently Amended) The compound of claim 12 which is selected from the group:

3-(4-Methoxyphenyl)-1-phenyl-7-(phenylamino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one (~~Ex. 1g~~);

3-(4-Methoxyphenyl)-1-phenyl-7-(phenylamino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one methanesulfonate salt (~~Ex. 1h~~);

7-[(4-Hydroxyphenyl)amino]-3-(4-methoxyphenyl)-1-phenyl-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one (~~Ex. 18~~); and

3-(4-Methoxyphenyl)-7-[(4-methoxyphenyl)amino]-1-phenyl-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one.

14. (Original) A compound selected from the group:

3-(4-Methoxyphenyl)-1-phenyl-7-(phenylamino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one,

3-(4-Methoxyphenyl)-1-phenyl-7-(phenylamino)-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one methanesulfonate salt,

7-[(4-Hydroxyphenyl)amino]-3-(4-methoxyphenyl)-1-phenyl-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one, and

3-(4-Methoxyphenyl)-7-[(4-methoxyphenyl)amino]-1-phenyl-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one.

15. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 1 and pharmaceutically acceptable carrier or excipient.

Claim 16. (Canceled).

Claim 17. (Canceled).

18. (Currently Amended) The A method of ~~claim 16~~ wherein the cancer is treating lung, colon or prostate cancer comprising administering to a patient in need of such treatment a therapeutically effective amount of a compound of claim 1.

19. (Currently Amended) The A method of ~~claim 17~~ wherein the cancer is controlling lung, colon or prostate cancer comprising administering to a patient in need of such treatment a therapeutically effective amount of a compound of claim 1.

20. (Currently Amended) A compound selected from the group:

(Chloromethoxy)-*N*-[3-(4-methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-benzamide [~~Example 4a~~]

3-(4-Methoxyphenyl)-1-phenyl-7-[[4-(1,1,2,2-tetramethyl-1-silapropoxy) phenyl]amino]-1,3,4-trihydropyrimidino[4,5-d]pyrimidin-2-one [~~Example 19c~~], and

N-[3-(4-Methoxyphenyl)-2-oxo-1-phenyl(1,3,4-trihydropyrimidino[4,5-d]pyrimidin-7-yl)]-*N*-[4-(1,1,2,2-tetramethyl-1-silapropoxy)phenyl]acetamide [~~Example 19d~~].